

# INTERNATIONAL SEARCH REPORT

International Application No  
PCT/IB 03/05445

<b>A. CLASSIFICATION OF SUBJECT MATTER</b> IPC 7 G11B7/0037 G11B7/0045 G11B7/007 G11B7/013 G11B7/24 G11B7/26		
According to International Patent Classification (IPC) or to both national classification and IPC		
<b>B. FIELDS SEARCHED</b> Minimum documentation searched (classification system followed by classification symbols) IPC 7 G11B		
Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched		
Electronic data base consulted during the International search (name of data base and, where practical, search terms used) EPO-Internal, PAJ		
<b>C. DOCUMENTS CONSIDERED TO BE RELEVANT</b>		
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X	EP 0 197 256 A (GERBER ARTHUR M) 15 October 1986 (1986-10-15)	1-4, 7-9, 12, 13
Y	page 9, line 21 -page 11, line 2 page 22, line 11 -page 23, line 20 page 29, line 29 -page 30, line 1; figures 8, 10	4
Y	US 5 031 168 A (MOORE GEORGE S) 9 July 1991 (1991-07-09) column 13, line 43 -column 14, line 2; figure 4	4
X	US 5 896 366 A (OGAWA MASATSUGU) 20 April 1999 (1999-04-20) column 4, line 31 - line 48; figures 1A, 1B	1
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<input checked="" type="checkbox"/> Further documents are listed in the continuation of box C. <input checked="" type="checkbox"/> Patent family members are listed in annex.		
* Special categories of cited documents : "A" document defining the general state of the art which is not considered to be of particular relevance "E" earlier document but published on or after the international filing date "L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified) "O" document referring to an oral disclosure, use, exhibition or other means "P" document published prior to the international filing date but later than the priority date claimed "T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention "X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone "Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art. "&" document member of the same patent family		
Date of the actual completion of the international search 2 March 2004		Date of mailing of the international search report 12/03/2004
Name and mailing address of the ISA European Patent Office, P.B. 5818 Patentlaan 2 NL - 2280 HV Rijswijk Tel. (+31-70) 340-2040, Tx. 31 651 epo nl, Fax: (+31-70) 340-3016		Authorized officer Chaumeron, B

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X	US 4 855 984 A (GERBER ARTHUR M) 8 August 1989 (1989-08-08) * The whole document * -----	1
X	US 4 811 331 A (GERBER ARTHUR M) 7 March 1989 (1989-03-07) * The whole document * -----	1
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Information on patent family members

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